









DESIGNER NOTES

- EXAMPLE 1 ASSUMES THAT THREE 5'-0" DIA. REINFORCED CONCRETE PIPES
 REPLACE TWO EXISTING 5'-0" CORRUGATED METAL PIPES. IT IS ASSUMED THAT
 EXTRA EXCAVATION OF 3'-6" BELOW BOTTOM OF THE LOW FLOW CHANNEL PIPE
 IS REQUIRED.
- EXAMPLE 2 ASSUMES THAT A CONCRETE RIGID FRAME (20°-0" CLEAR SPAN)
 REPLACES TWO EXISTING 117" X 79" PIPE ARCHES. IT IS ASSUMED THAT EXTRA
 EXCAVATION BELOW PIPES IS NOT REOUIRED.
- EXAMPLE 3 ASSUMES THAT PRESTRESSED ADJACENT CONCRETE BOX BEAMS ATOP STUB ABUTMENTS WITH DECK SLAB POUROVER ON PILES REPLACE EXISTING TIMBER BRIDGE (35°40" SPAN) SUPPORTED BY TIMBER SUBSTRUCTURE ON TIMBER PILES. IT IS ASSUMED THAT THE NEW VERTICAL PROFILE IS APPROXIMATELY 2°9" INICIDENT THAN THE EXISTING VERTICAL PROFILE AND ALSO THAT THE EXISTING BRIDGE IS NOT IN CENTER OF CHANNEL SUPERSTRUCTURE NOT SHOWN FOR CLABITY.
- 4. EXAMPLE 4 ASSUMES THAT PRESTRESSED ADJACENT CONCRETE BOX BEAMS ATOP STUB ABUTMENTS WITH DECK SLAB POUROVER ON PILES REPLACE EXISTING 20-0° WIDE STEEL PLATE ARCH SUPPORTED BY CONCRETE FOOTERS. IT IS ASSUMED THAT CANTILEVER WINGWALLS ARE REQUIRED. SUPERSTRUCTURE NOT SHOWN FOR CLARITY.
- EXAMPLE 5 ASSUMES THAT WINGWALLS FOR A CONCRETE RIGID FRAME REPLACE SMALLER EXISTING CONCRETE RIGID FRAME WINGWALLS. ASSUME BOTH WINGWALLS ARE FLARED AT 45 DEGREES.
- FOR MORE INFORMATION ON DETERMINING THE APPROPRIATE TYPE OF SUBFOUNDATION MATERIAL(S), REFER TO ENGINEERING INSTRUCTIONS 16-001 -'GUIDANCE FOR EXCAVATION OF UNSUITABLE MATERIALS'.
- POTENTIAL EXCAVATION FOR PLACEMENT OF SCOUR COUNTERMEASURES NOT SHOWN IN EXAMPLE 2. EXCAVATION FOR SCOUR COUNTERMEASURES WILL BE PAID FOR UNDER RESPECTIVE SCOUR COUNTERMEASURE ITEM(S). REFER TO DETAILS 350.01, 355.01, AND 360.01 FOR ADDITIONAL INFORMATION ON PLACEMENT OF SCOUR COUNTERMEASURES.
- ALL EXISTING PIPES SHOWN IN THIS DETAIL ARE ASSUMED TO BE PIPES CLASSIFIED AS A BRIDGE. REMOVAL FOR ALL PIPES NOT CLASSIFIED AS BRIDGES WILL BE PER DELDOT STANDARD SPECIFICATIONS.
- FOR ADDITIONAL INFORMATION, REFER TO SECTIONS 202, 203, 207, AND 211 OF THE DELDOT STANDARD SPECIFICATIONS.
- EXCAVATION AND BACKFILL PAY LIMITS SHOULD BE SHOWN ON PLANS AND INCLUDED IN QUANTITY CALCULATIONS REPORT.
- 11. IF THE TOTAL QUANTITY FOR 203000 CHANNEL EXCAVATION IS CALCULATED TO BE LESS THAN 20 CUBIC YARDS, THE DESIGNER MAY INCLUDE THE SMALL QUANTITY UNDER 207000 IN LIEU OF USING 203000 AND MUST MAKE A NOTE OF THIS IN THE PLANS AND QUANTITY CALCULATIONS.

